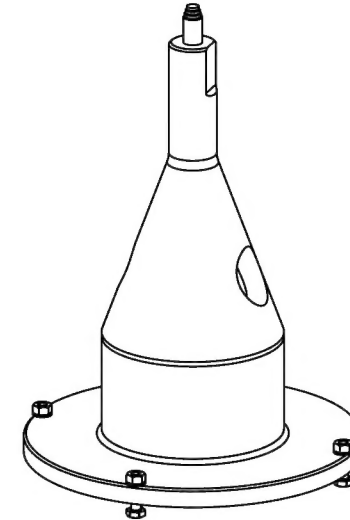
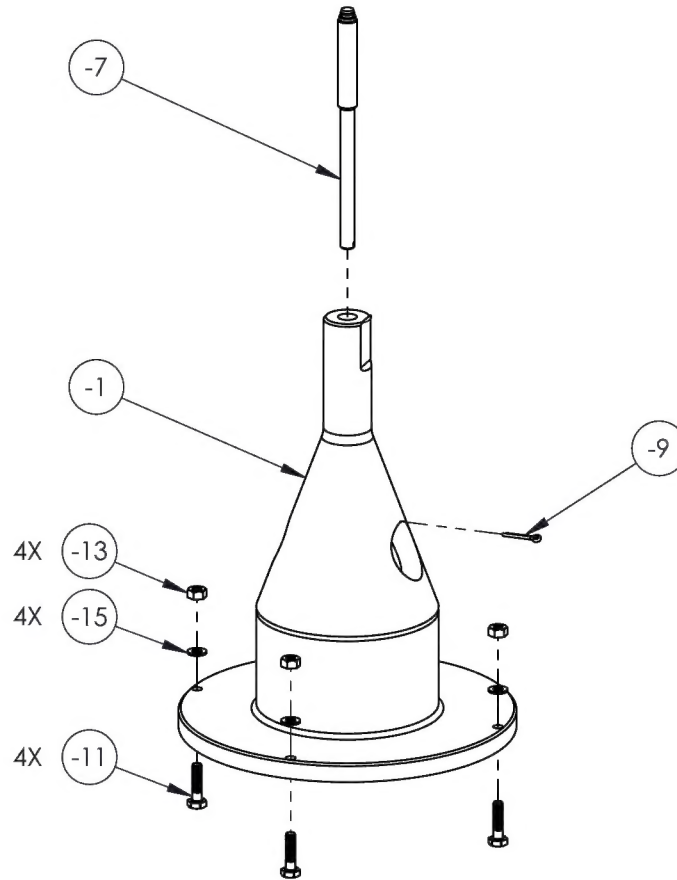


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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
	REDRAWN FROM ORIGINAL TATTERED BELL DWG.	9/6/2013	CFS	



UNDER REVIEW
URF 19-1158 19.10.31 (VM)

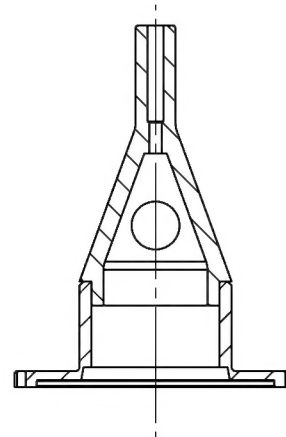
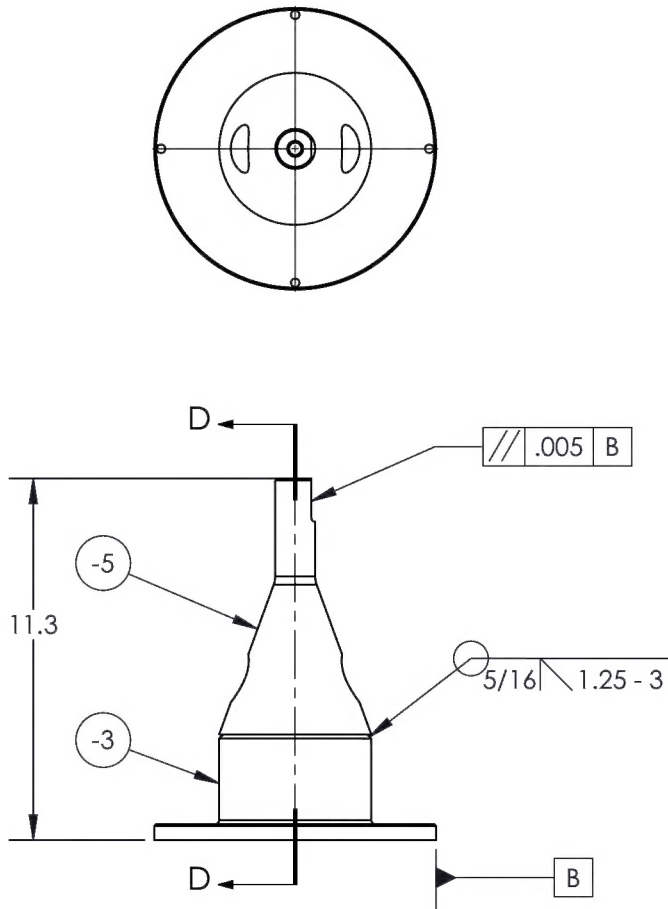
- NOTE:
1. REVERSED ENGINEERED FROM PURCHASED PART. PART IS REDESIGN OF CAST PART SHOWN IN BELL PRINTS T103291.
 2. PART IS .300 SHORTER AND REDESIGNED AS A TWO PIECE WELDED ASSEMBLY.

ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
	X		-1	1	WELDMNT			2
	1		-3		BASE	6061	Ø9 X 3-1/2	3
	1		-5		TOP	6061	Ø4-3/4 X 9	4
			-7	1	PLUNGER	4130	Ø1/2 X 6-3/4	5
		B/O	-9	1	COTTER PIN	STEEL	Ø3/32 X 3/4 MS24665-283	1
		B/O	-11	4	BOLT	STEEL	1/4-28 X 1 AIRCRAFT SPRUCE #AN4-10A	1
		B/O	-13	4	NUT	STEEL	1/4-28 AIRCRAFT SPRUCE #AN315-4	1
		B/O	-15	4	WASHER	STEEL	Ø1/4 I.D. AIRCRAFT SPRUCE #AN960-416	1
ASSY	-1							

RED BARN MACHINE	
TITLE	ALIGNMENT TOOL SET - COMBINING GEARBOX TO TRANSMISSION
DWG NO.	RB T103291-109
MAT'L	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/32 .XX ± .03 ANGLES ± 5° .X ± .1
DRAWN BY:	GILBERT
APPROVED	<i>D Weil</i>
HEAT TREAT	
FINISH	
SPEC	
USED ON MODEL	BELL 214ST
SCALE	1:5
DATE	7/11/2012
SHEET	1 OF 5

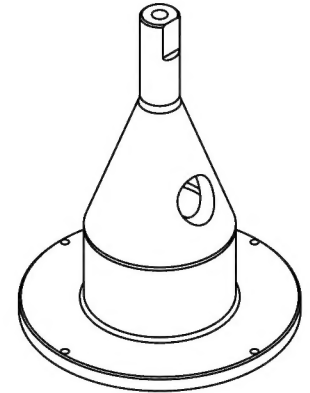
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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL



SECTION D-D

①
WELDMENT



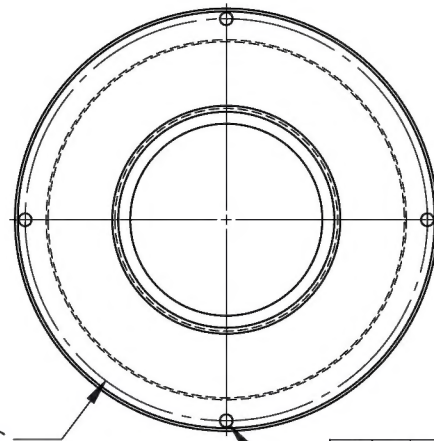
UNDER REVIEW
URF 19-1158 19.10.31 (VM)

NOTE:
1. ALL DIMENSIONS & TOLERANCES TO BE MET AFTER -1 WELDMENT.

RED BARN MACHINE			
TITLE ALIGNMENT TOOL SET - COMBINING GEARBOX TO TRANSMISSION			
DWG NO. RB T103291-109-1			REV
MAT'L		DRAWN BY: GILBERT	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/32 .XX ± .03 ANGLES ± 5° .X ± .1		APPROVED <i>D Weil</i>	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING		HEAT TREAT FINISH CLEAR ANODIZE SPEC MIL-A-8625F, TYPE II, CLASS I USED ON MODEL BELL 214ST	
SCALE 1:6	DATE 7/11/2012	SHEET 2 OF 5	

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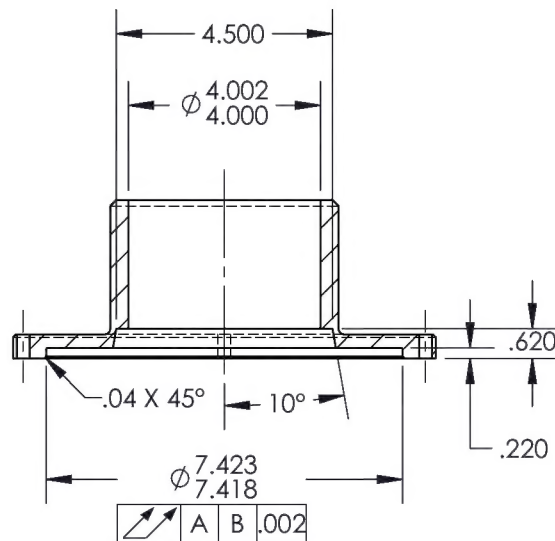
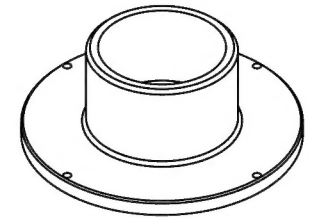
REVISIONS			
REV	DESCRIPTION	DATE	INITIAL



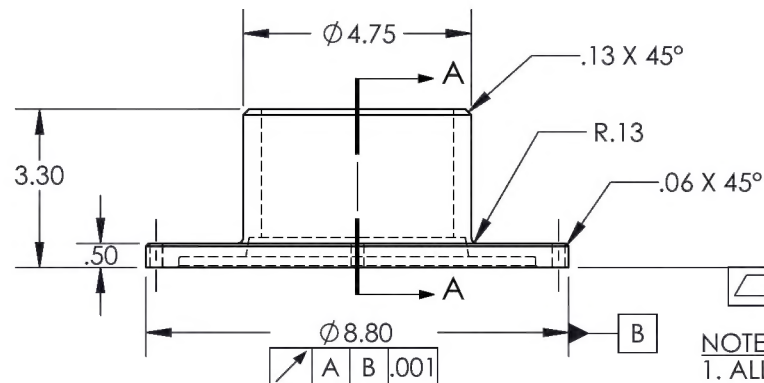
Ø8.375 B.C.

⊕ A B (M) Ø.007 (M)

4X Ø .272
 .265 THRU ALL SP



SECTION A-A



③
BASE

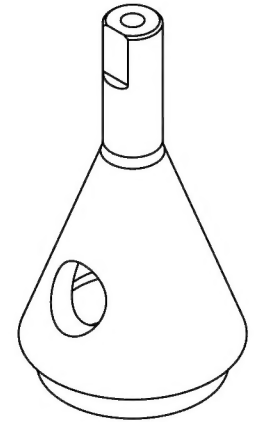
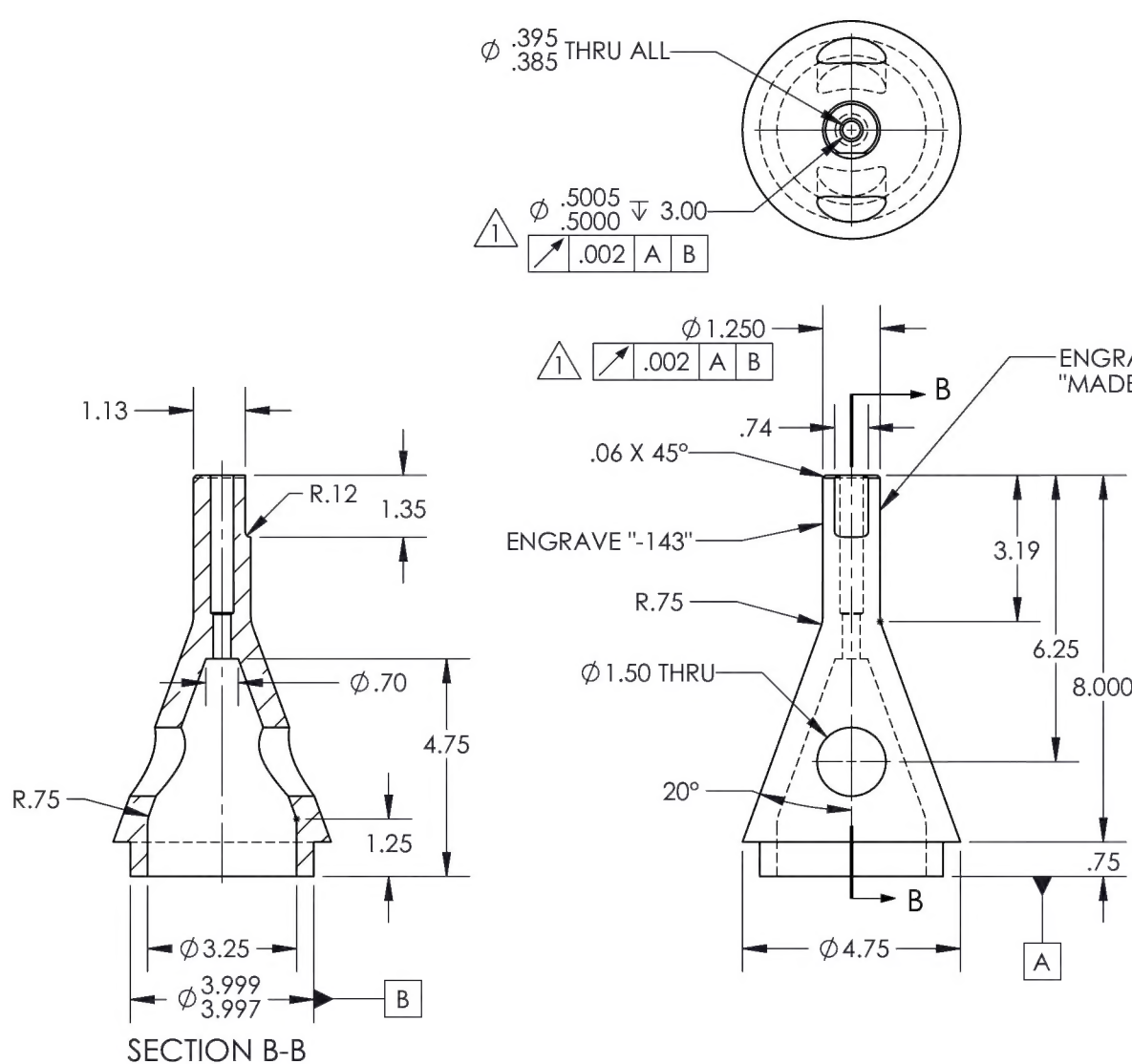
UNDER REVIEW
URF 19-1158 19.10.31 (VM)

NOTE:
1. ALL DIMENSIONS & TOLERANCES TO BE MET AFTER -1 WELDMENT.

RED BARN MACHINE	
TITLE ALIGNMENT TOOL SET - COMBINING GEARBOX TO TRANSMISSION	
DWG NO. RB T103291-109-3	REV
MAT'L 6061	DRAWN BY: GILBERT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/32 .XX ± .03 ANGLES ± 5° .X ± .1	APPROVED <i>D Weil</i>
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	HEAT TREAT SEE SHEET 2 WELDMENT
SCALE 1:4	SHEET 3 OF 5

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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL



UNDER REVIEW
URF 19-1158 19.10.31 (VM)

NOTE:

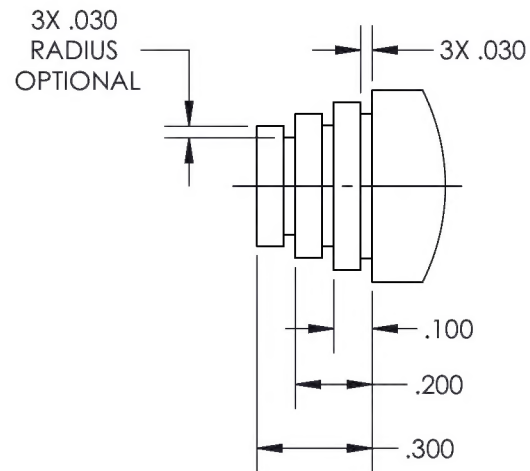
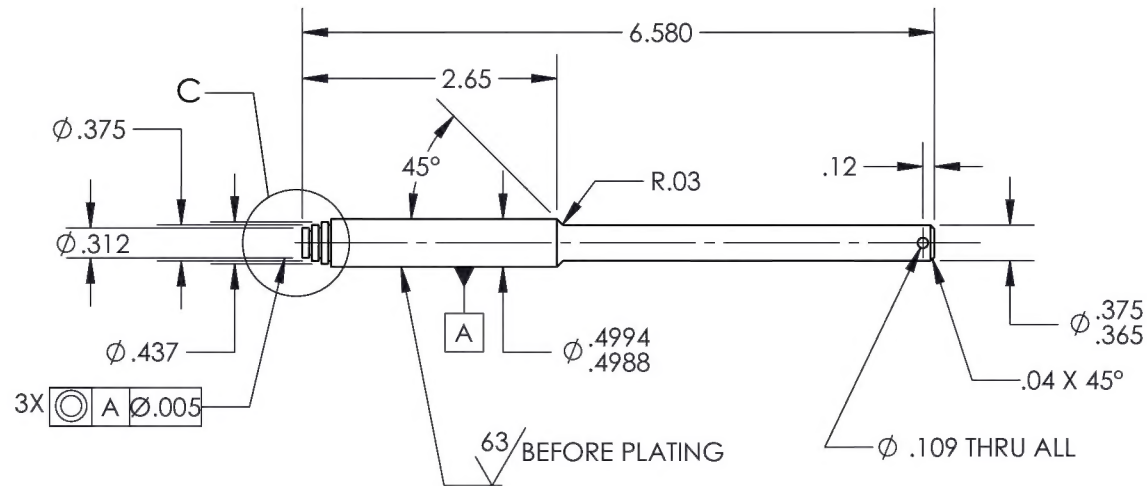
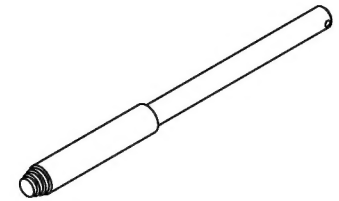
1. ALL DIMENSIONS & TOLERANCES TO BE MET AFTER -1 WELDMENT.

RED BARN MACHINE	
TITLE ALIGNMENT TOOL SET - COMBINING GEARBOX TO TRANSMISSION	
DWG NO. RB T103291-109-5	REV
MAT'L 6061	DRAWN BY: GILBERT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .030 FRACTIONS ± 1/32	HEAT TREAT
.XX ± .03 ANGLES ± 5°	FINISH SEE SHEET 2 WELDMENT
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	BELL 214ST
SCALE 1:4	DATE 7/11/2012
SHEET 4 OF 5	

(-5)
TOP

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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL



DETAIL C
SCALE 2 : 1

(-7)
PLUNGER

UNDER REVIEW
URF 19-1158 19.10.31 (VM)

RED BARN MACHINE	
TITLE ALIGNMENT TOOL SET - COMBINING GEARBOX TO TRANSMISSION	
DWG NO. RB T103291-109-7	REV
MAT'L 4130	DRAWN BY: GILBERT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
.XXX ± .010	FRACTIONS ± 1/32
.XX ± .03	ANGLES ± 5°
.X ± .1	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:2	DATE 7/11/2012
SHEET 5 OF 5	